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IN PREVIOUS LECTURE(QUICK RECAP)	IN TODAY'S LECTURE(OVERVIEW)
=LEARNED ABOUT GIT COMMANDS	Introduction to Github,Master Branch&Dev Branch and Fork
=1.git init 2.git status 3.git add =4.git commit 5.git log 6.git diff	New Commands=Gitpush,Gitpull,Gitmerge, Gitclone,Gitbrandev,Gitcheckot -b, Gitcheckout hash of commit

=In this class we are gonna look into **Github** and learn How to **clone** your Repository And **Push** to Github

- == Introduction To the Github
- -GitHub is a Git repository hosting service
- -Github is owned by Microsoft
- -Github saves your data to their **Servers/Cloud** and when you or anyone needs your data, it **clones** your data/file to your Computer. =Site Address-> <u>Github</u>



==About Master Branch

- -Sole branch of repository is Known As Master Branch
- -Master branch keeps your all code releases.
- ==We also learned some **new commands** in this lectures that are explained below

1.Git push

- -The **git push command** is used to **upload** local repository content to a **Cloud/Servers** repository.
- -Pushing is how you transfer commits from your local repository to a remote repo.
- To Push file you have to to **type git push**(Git push only works when you **Commit** anyfile without **committing** this command won't work)

```
upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attainu/assignments/week01/week01day05 (
dev)
$ git commit -m assignment.txt
[dev 9bf9e96] assignment.txt
1 file changed, 29 insertions(+)
create mode 100644 assignments/week01/week01day05/assignment.txt

upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attainu/assignments/week01/week01day05 (
dev)
$ git push
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 881 bytes | 440.00 KiB/s, done.
Total 6 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/Upadhyay-Hemanshu-au9/Attainu.git
TOCe/6d..9bT9e96 dev -> dev

upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attainu/assignments/week01/week01day05 (
dev)
$
```

TO Know More About Gitpush "Click Here"

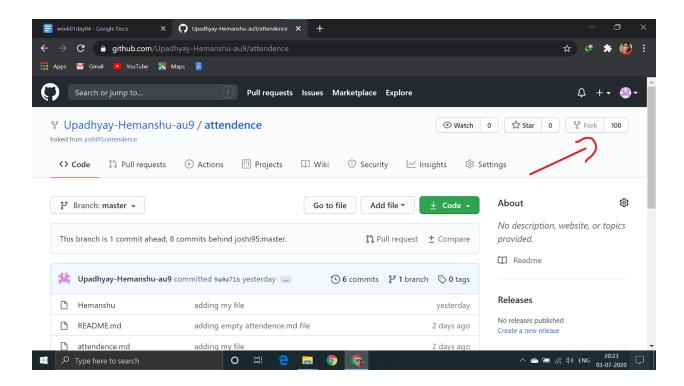
2.Git pull

- -The git pull command is used to fetch and download content from a remote repository
- -it is also used to Merge Changes to your local repository.
- -The git pull command is actually a combination of two other commands, **git fetch** followed by **git merge**.

To Know More About Gitpull "Click Here"

3.Fork

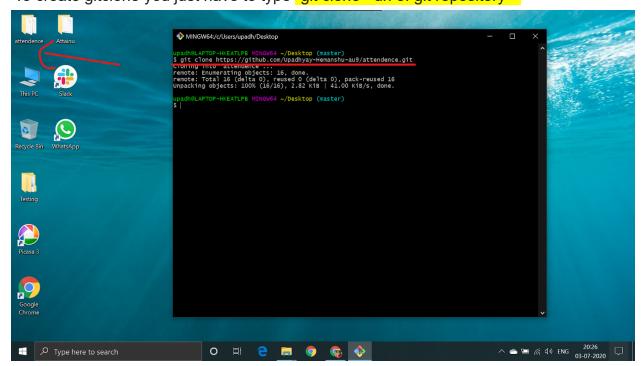
- -Git Fork means you just create a copy of the main repository of a project source code to your own GitHub profile.
- -in Fork you can experiment whatever you like without affecting the main source of that project. .



4.Git Clone

-git clone is a Git command line utility which is used to target an existing repository and create a clone, or copy of the target repository.

-To create gitclone you just have to type "git clone <url of git repository>"



To know More About GitClone "Click Here"

5.git branch dev

-It is used to create new Branch in your Gitbash

To create dev(developer) just type "git branch dev" and done.

[Note-this command will only work if you are in some repository if you type this in the beginning/desktop this will not work]

==To know which branch in you are or want to know how many branch are there just type git branch,to change branch type git checkout dev

```
upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attendence (master)
s git branch dev

upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attendence (master)
s git branch
dev
* master

upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attendence (master)
s git checkout dev
Switched to branch 'dev'
```

6.git checkout -b

- it is used to create and change directory at same time
- -It means this command can create a new Branch and will change the Branch At the same time

```
upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attendence (dev)
$ git checkout -b hari
Switched to a new branch 'hari'

upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attendence (hari)
$ git branch
    dev
* hari
    master
```

To Know More About Git Branchs "Click Here"

7.Git merge

-git merge basically merges your dev branch's file into master branch

-to merge files type Git merge

Stranch name {in which you would like to merge}

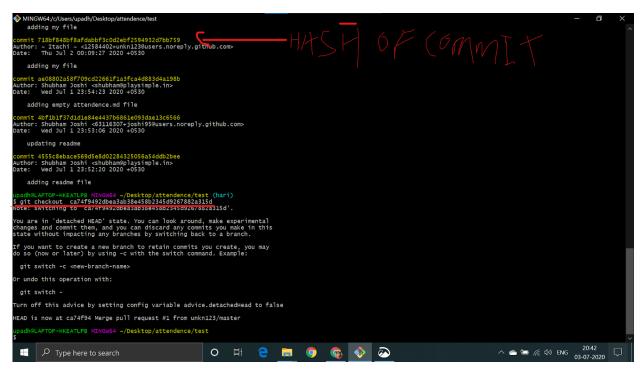
```
upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attendence/test (hari)
$ git add . test.txt
fatal: pathspec 'test.txt' did not match any files
upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attendence/test (hari)
$ git add . mk.txt
upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attendence/test (hari)
$ git status
On branch hari
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
       new file:
                  mk.txt
upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attendence/test (hari)
$ git commit -m mk.txt
[hari 7882835] mk.txt
1 file changed, 1 insertion(+)
create mode 100644 test/mk.txt
upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attendence/test (hari)
$ git status
On branch hari
nothing to commit, working tree clean
upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attendence/test (hari)
$ git merge master
Aiready up to date.
upadh@LAPTOP-HKEATLPB MINGW64 ~/Desktop/attendence/test (hari)
```

To Know More About Git Merge "Click Here"

8.git checkout hash of commit

-this command helps you to fix your issues/mistakes that you have done in previous commit's

-Just type Git checkout hash of commit which is shown below



To Know More About It "Click Here"